Nonconverted Transmission

BPA Scheduling Coordinator Services Briefing

February 6, 2002







What is our purpose today?

Meeting Purpose:

- Explain SC services.
- Answer questions and address issues.
- Solicit customer comments and feedback aimed at assisting BPA with SC development.



What are our key messages?

- Under RTO West, an SC is required.
- BPA will operate as an SC for our contracts with you.
- BPA will meet certain requirements set by RTO West.
- Cost of SC services depends on how well we can manage costs and risks.
- For its Full Service customers, BPA will provide RTO West with balanced schedules, secure ancillary services and manage congestion.
- BPA intends to be your SC and life won't change much.

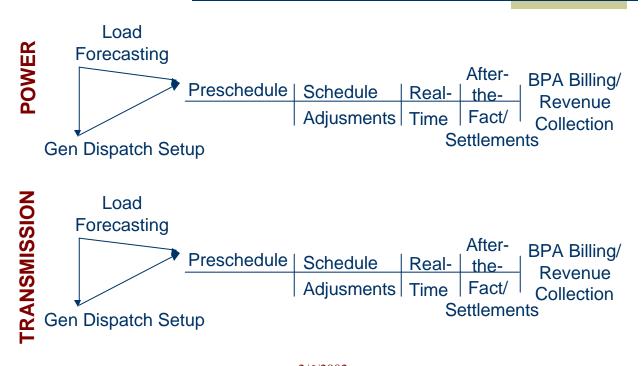


What are the specific responsibilities of RTO West?

- RTO West will market transmission and will coordinate transmission operation for purposes of system reliability, improved schedule coordination and expansion planning.
- Specific responsibilities include:
 - Provide single open-access same-time information system (OASIS).
 - Determine total and available transmission capacity.
 - Manage real-time operation of grid.
 - Honor pre-existing transmission contract obligations.
 - Eliminate fragmented operations of separate systems.
 - Remove transmission rate pancakes.
 - Assure functional markets for developing transmission capacity.
 - Establish operational and business relationships with SCs.

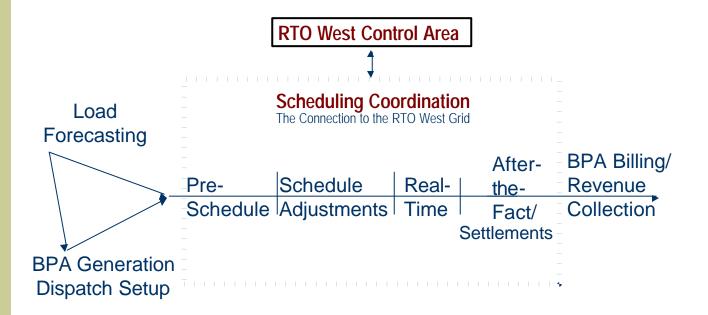


How does Full Service look today?





What will BPA Full Service transactions look like post-RTO?





Why are Scheduling Coordinators important?

- Only RTO West-certified SCs may transact business with the RTO.
- Submit balanced load and generation schedules to RTO West.
- Manage customer transactions with RTO to ensure effective real-time management and operation of the regional transmission grid.

Will BPA be the SC for your contracts?

Full Service Customers

	Generation	Load	Ancillary Services
Now	Υ	Υ	Υ
Post-RTO	Υ	Υ	Y

BPA will continue to provide all services it does today and any new services required by the RTO.



What are the SC's specific responsibilities under RTO West?

SCs will:

- Submit hourly balanced schedules (injections and withdrawals) on the customer's behalf to RTO West.
- Manage load/generation under SC control.
- Manage transactions with other SCs.
- Make schedule adjustments after preschedule.
- Respond to RTO West control area concerns and instructions.
 - For example, respond to generation redispatch instructions.
- Handle billing & financial settlement with RTO West.
- Arrange ancillary services needed for full service according to contract.

2/6/2002

Pre-Decisional



Will my transmission rights change under RTO West?

- All existing long-term contract rights will continue to be honored using a "catalogue" of rights and assets provided to RTO West by BPA.
- BPA SC will hold the catalogued transmission rights (CTRs) for those not converting.
- Customers needing new points-of-delivery, operations, maintenance and other delivery services would continue to request those services from BPA.



How will ancillary services be handled under RTO West?

RTO West will:

- Replace BPA and other participating transmission owners as the current control area operator and assume responsibility for operation of the grid.
- Serve as the provider of last resort of all ancillary services.
- Support the development of a competitive market for ancillary services.



What changes will occur with or without RTO West?

- Transmission congestion is likely to increase, as will the need to manage congestion.
- New facilities need to be built to meet demand and address reliability concerns.
- System efficiency will require accurate load forecasts and schedules for each customer.
- Better regional coordination of transmission planning will be needed for cost-efficient results.



What will SC activities cost?

- BPA is developing cost estimates for operating an SC function.
- However, the largest cost exposure is that associated with system congestion costs and imbalance charges.
 The SC is responsible for keeping these costs at a minimum.
- BPA is actively involved in helping to shape RTO West such that customer costs are minimized.

What risks will the SC manage?

- Principle risks associated with growing congestion (regardless of whether RTO West is formed) are:
 - Load imbalance charges
 - Generation imbalance charges
 - Congestion costs
- Reward for effective SC risk management is cost efficiency and avoidance of RTO West penalty charges.



What are BPA's key principles in developing the SC function?

- Utilize existing information technology systems where possible.
- Provide services at cost.
- Fairly allocate risk between BPA and SC customers.
- Keep life as simple as possible for Full Service customers.



What are the organizational impacts to BPA?

- ◆ BPA plans to offer all SC service under one organization.
- SC functions will require BPA to better manage congestion risks.
- BPA will design the customer processes to ensure business with the SC is made easy.
- ◆ BPA will provide "SC business practices" to detail how BPA will interact with Full Service customers.
- BPA will seek customer input on its proposed SC organizational design.

How does a customer work with a Scheduling Coordinator?

- ◆ BPA will work with its customers to develop the information necessary for the SC to carry out its functions:
 - Load forecasts
 - Load information
 - Meter data



What are the key take-away messages of today?

- Under RTO West, an SC is required.
- BPA will operate as an SC for our contracts with you.
- BPA will meet certain requirements set by RTO West.
- Cost of SC services depends on how well we can manage costs and risks.
- For its Full Service customers, BPA will provide RTO West with balanced schedules, secure ancillary services and manage congestion.
- BPA intends to be your SC and life won't change much.



Where do we go from here?

- February 2002 Conclude this round of SC discussions with Full Service customers.
- March 2002 Similar discussions with other types of customers.
- ◆ Summer 2002 SC services design, cost estimates, pricing and risk management principles, and staffing and system needs.
- Fall 2002 Customer workshops, Final Scheduling Coordinator Business Plan.
- ◆ 2003 SC rates, final SC service design, SC business practices.
- 2004 SC start up and testing.
- 2005 SC and RTO West implementation.



Where can I go to get more information?

Scheduling Coordination website

http://www.bpa.gov/corporate/kc/schedcoord/

RTO West website

Full Service Customers

http://www.rtowest.org/

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Congestion Management Convergence Model

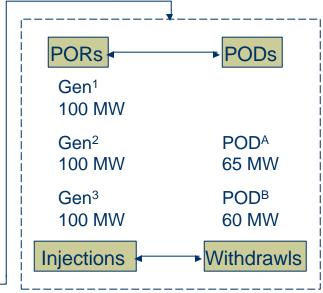
Effective February 6, 2002



How will network service work under RTO West?

Catalogued Transmission Rights (CTRs)

- Today's Network Transmission Rights are defined by Points of Receipt (PORs) and Points of Delivery (PODs) and are limited in real time by actual load.
- In the RTO Catalogue, PODs and PORs become "withdrawals" and "injections," respectively.
- SC submits final schedules:
 - Simultaneous injection & withdrawal pairs cannot exceed load.



Example for a 100 MW peak Customer

How will congestion management work under RTO West?

Transmission Constraint Z LoadA 25 +/- 5 Z LoadB 50+/- 4 Y LoadC F



How will congestion management work under RTO West?

